Design of electrical equipment for solar battery navigation system

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Abstract: In the context of increasing demand for renewable energy, this topic focuses on the design and implementation of a solar panel tracking system. The objective of the research is to optimize energy harvesting performance from sunlight by adjusting the position and tilt angle of the solar modules. The method combines electronic technology theory with experimentation to evaluate effectiveness. The study aims to contribute to the development of sustainable energy systems, meeting the need for stable energy supply in various locations.

Keywords: Solar energy, battery navigation, energy optimization